

What is claimed is:

1. A method for management and collection of impulse pay-per-view (IPPV) data in smart card enabled digital television terminals, comprising the steps of:
 - sending security information from a headend controller to a smart card via the terminal;
 - computing smart card authentication data based on said security information;
 - polling the terminal by the headend controller to retrieve said authentication data and current IPPV data;
 - validating said current IPPV data at said controller based on said authentication data; and
 - sending updated IPPV data from said controller to said smart card via said terminal.
2. A method in accordance with claim 1, wherein said authentication data is derived from at least one of:
 - said security information,
 - said IPPV data,
 - purchase record information.
3. A method in accordance with claim 1, wherein said updated IPPV data is based on said validated current IPPV data.
4. A method in accordance with claim 1, wherein said smart card is one of:
 - a newly issued smart card with zero IPPV data values,
 - a re-issued smart card with zero IPPV data values,
 - a re-issued smart card with non-zero IPPV data values.
5. A method in accordance with claim 1, further comprising:

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temporarily disabling IPPV capabilities at the terminal until updated IPPV data is received by the terminal.

6. A method in accordance with claim 1, further comprising:
comparing the updated IPPV data to an IPPV purchase amount to determine whether to allow or disallow an IPPV purchase.
7. A method in accordance with claim 1, further comprising:
storing said current IPPV data at said terminal.
8. A method in accordance with claim 1, further comprising:
reporting previously stored IPPV data values from a prior smart card associated with said terminal from said terminal to said headend.
9. A method in accordance with claim 1, further comprising:
constructing a purchase report back message at said terminal at the time of an initial IPPV purchase.
10. A method in accordance with claim 9, further comprising:
updating said purchase report back message at the time of each subsequent IPPV purchase after said initial purchase.
11. A method in accordance with claim 10, further comprising:
periodically polling the terminal by the headend controller to retrieve the report back message.
12. A method in accordance with claim 11, further comprising:
overwriting said purchase report back message with a new purchase report back message at the time of a first IPPV purchase occurring after said polling.

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13. A method in accordance with claim 9, further comprising:
storing said purchase report back message at said terminal.
14. A method in accordance with claim 9, wherein said purchase report back message includes at least one of said current IPPV data, IPPV purchase data, and said authentication data.
15. A system for management and collection of impulse pay-per-view (IPPV) data, comprising:
a headend controller;
a smart card enabled digital television terminal in communication with said controller via a network; and
a smart card operatively associated with said terminal;
wherein:
said controller sends security information to the smart card via the terminal;
authentication data based on said security information is computed by said smart card;
the terminal is polled by the headend controller to retrieve said authentication data and current IPPV data;
said current IPPV data is validated by the controller based on said authentication data; and
updated IPPV data is sent from said controller to said smart card via said terminal.
16. A system in accordance with claim 15, wherein said authentication data is derived from at least one of:

said security information,
said IPPV data,
purchase record information.

17. A system in accordance with claim 15, wherein said updated IPPV data is based on said validated current IPPV data.
18. A system in accordance with claim 15, wherein said smart card is one of:
a newly issued smart card with zero IPPV data values,
a re-issued smart card with zero IPPV data values,
a re-issued smart card with non-zero IPPV data values.
19. A system in accordance with claim 15, wherein:
temporarily disabling IPPV capabilities at the terminal until updated IPPV data is received by the terminal.
20. A system in accordance with claim 15, wherein:
updated IPPV data is compared to an IPPV purchase amount to determine whether to allow or disallow an IPPV purchase.
21. A system in accordance with claim 15, further comprising:
a storage device associated with said terminal for storing said current IPPV data.
22. A system in accordance with claim 15, wherein:
previously stored IPPV data values from a prior smart card associated with said terminal are reported from said terminal to said headend.
23. A system in accordance with claim 15, wherein:

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a purchase report back message is constructed at said terminal at the time of an initial IPPV purchase.

24. A system in accordance with claim 23, wherein said purchase report back message is updated at the time of each subsequent IPPV purchase after said initial purchase.

25. A system in accordance with claim 24, wherein:
the headend controller periodically polls the terminal to retrieve the report back message.

26. A system in accordance with claim 25, wherein said purchase report back message is overwritten with a new purchase report back message at the time of a first IPPV purchase occurring after said poll.

27. A system in accordance with claim 23, wherein said purchase report back message is stored at said terminal.

28. A system in accordance with claim 23, wherein said purchase report back message includes at least one of said current IPPV data, IPPV purchase data, and said authentication data.

29. A method for managing and collecting impulse pay-per-view (IPPV) data in smart card enabled digital television terminals, comprising the steps of:

constructing a purchase report back message at a television terminal at the time of an initial IPPV purchase;

updating said purchase report back message at the time of each subsequent IPPV purchase; and

periodically polling said terminal by a headend controller to retrieve the purchase report back message.

30. A method in accordance with claim 29, further comprising:
overwriting said purchase report back message with a new purchase report back message at the time of a first IPPV purchase occurring after said polling.
31. A method in accordance with claim 29, further comprising:
storing said purchase report back message at said terminal.
32. A method in accordance with claim 29, wherein said purchase report back message includes at least one of said current IPPV data, IPPV purchase data, and said authentication data.
33. A system for managing and collecting impulse pay-per-view (IPPV) data in smart card enabled digital television terminals, comprising:
a headend controller;
a smart card enabled digital television terminal in communication with said controller via a network; and
a smart card operatively associated with said terminal;
wherein:
a purchase report back message is constructed at said television terminal at the time of an initial IPPV purchase;
said purchase report back message is updated by said terminal at the time of each subsequent IPPV purchase; and
said terminal is periodically polled by a headend controller to retrieve the purchase report back message.
34. A system in accordance with claim 33, wherein:

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said purchase report back message is overwritten with a new purchase report back message at the time of a first IPPV purchase occurring after said polling.

35. A system in accordance with claim 33, wherein:

said purchase report back message is stored at said terminal.

36. A system in accordance with claim 33, wherein said purchase report back message includes at least one of said current IPPV data, IPPV purchase data, and said authentication data.

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